

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011330

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> H01Q13/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> H01Q13/08, H01Q1/38Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004  
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| X         | JP 2869891 B2 (Murata Mfg. Co., Ltd.),<br>08 January, 1999 (08.01.99),<br>Full text; Figs. 1 to 11<br>(Family: none)                                     | 1-3                   |
| Y         |  | 5, 6                  |
| X         | JP 2002-217638 A (Mitsubishi Electric Corp.),<br>02 August, 2002 (02.08.02),<br>Full text; Figs. 1 to 12<br>(Family: none)                               | 1, 3, 4               |
| Y         |  | 5, 6                  |
| X         | JP 6-69717 A (Foundation for Advancement of<br>International Science (FAIS)),<br>11 March, 1994 (11.03.94),<br>Full text; Figs. 1 to 7<br>(Family: none) | 1, 4                  |
| Y         |  | 5, 6                  |

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents:
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  
18 August, 2004 (18.08.04)Date of mailing of the international search report  
31 August, 2004 (31.08.04)Name and mailing address of the ISA/  
Japanese Patent Office

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| Y         | JP 5-121925 A (Toko, Inc.),<br>18 May, 1993 (18.05.93),<br>Full text; Figs. 1 to 6<br>(Family: none)                                   | 5                     |
| Y         | JP 2002-171190 A (NEC Corp.),<br>14 June, 2002 (14.06.02),<br>Par. Nos. [0016], [0025]; Fig. 2<br>& EP 1211749 A1 & US 2002/68602 A1   | 6                     |
| A         | JP 3-192805 A (Nippon Telegraph & Telephone Public Corp.),<br>22 August, 1991 (22.08.91),<br>Full text; Figs. 1 to 5<br>(Family: none) | 1-4                   |
| A         | JP 9-307342 A (Mitsubishi Electric Corp.),<br>28 November, 1997 (28.11.97),<br>Full text; Figs. 1 to 8<br>& US 5926136 A               | 1-4                   |

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